

**IN THE UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF DELAWARE**

<div>TQ DELTA, LLC,</div> <div>Plaintiff,</div> <div>v.</div> <div>2WIRE, INC.</div> <div>Defendant.</div>	Civil Action No. 13-cv-1835-RGA
<div>TQ DELTA, LLC,</div> <div>Plaintiff,</div> <div>v.</div> <div>ZHONE TECHNOLOGIES, INC.</div> <div>Defendant.</div>	Civil Action No. 13-cv-1836-RGA
<div>TQ DELTA, LLC,</div> <div>Plaintiff,</div> <div>v.</div> <div>ZYXEL COMMUNICATIONS, INC. and ZYXEL COMMUNICATIONS CORPORATION,</div> <div>Defendants.</div>	Civil Action No. 13-cv-2013-RGA
<div>TQ DELTA, LLC,</div> <div>Plaintiff,</div> <div>v.</div> <div>ADTRAN, INC.</div> <div>Defendant.</div>	Civil Action No. 14-cv-954-RGA
<div>ADTRAN, INC,</div> <div>Plaintiff,</div> <div>v.</div> <div>TQ DELTA, LLC.</div> <div>Defendant.</div>	Civil Action No. 15-cv-121-RGA

**FAMILY 5 PATENTS JOINT CLAIM CONSTRUCTION CHART**

Pursuant to ¶ 9 of the Court's Third and Final Scheduling Order, dated April 10, 2017, Plaintiff TQ Delta, LLC and Defendants in the above-captioned cases submit their Joint Claim Construction Chart ("Chart") for the Family 5 Patents (U.S. Patent Nos. 7,451,379 ("the '379 patent"), 7,925,958 ("the '958 patent"), 7,979,778 ("the '778 patent"), and 8,516,337 ("the '337 patent")). The Chart attached as Exhibit A includes the parties' respective proposed constructions of the disputed language of the asserted claims of the Family 5 Patents. The Chart includes citations to the parties' intrinsic evidence in support of such constructions. For the Court's reference, also included in Exhibit A are the parties' agreed to constructions for language of the asserted claims. The parties reserve their rights to amend and/or supplement their disclosures.

In addition to the Joint Claim Construction Chart attached as Exhibit A, copies of the Family 5 Patents and additional portions of the intrinsic record are attached as Exhibits B–E:

<b>Exhibit</b>	<b>Description</b>
B	'379 patent
C	'958 patent
D	'778 patent
E	'337 patent

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